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°C for 1 h. The membrane was washed with 1 × PBS for 5 min, and then with TPBS (0.05% Trion X-100/PBS) for 15 min three times. The membrane was reacted with a chemiluminescence reagent (Amersham Inc. ECL) for 1 min, and then, was exposed to an X-ray film for 2 min.

IN THE CLAIMS:

Please substitute amended claims 8-14 for pending claims 8-14 and add new claims 15-20 as follows:

8. (Amended) DNA encoding a flugrescent protein comprising the amino acid sequence set forth in SEQ ID No. 1 with at least the mutations of Phe64Leu, Val163Ala, and Ser175Gly.

9. (Amended) DNA encoding a fluorescent protein comprising the amino acid sequence set forth in SEQ ID/No. 1 with the three mutations of Phe64Leu, Val163Ala, and Ser175Gly.

10. (Amended) DNA encoding a fluorescent protein comprising the amino acid sequence set forth in SEQ ID No. 1 with at least the mutations of Tyr66His, Tyr145Phe, and Phe64Leu.

11. (Amended) DNA encoding a fluorescent protein comprising the amino acid sequence set forth in SEQ ID No. 1 with at least the mutations of Tyr66His, Tyr145Phe, Phe64Leu, and Leu236Arg.

12. (Amended) DNA encoding a fluorescent protein comprising the amino acid sequence set forth in SEQ ID No. 1 with the four mutations of Tyr66His, Tyr145Phe, Phe64Leu, and Leu236Arg

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13. (Amended) DNA encoding a fluorescent protein comprising the amino acid sequence set forth in SEQ ID No. 1 with at least the mutations of Tyr66His, Tyr145Phe, Phe64Leu, Val163Ala, Ser175Gly and Leu236Arg.

14. (Amended) DNA encoding a fluorescent protein comprising the amino acid sequence set forth in SEQ ID No. 1 with the six mutations of Tyr66His, Tyr145Phe, Phe64Leu, Val163Ala, Ser175Gly and Leu236Arg.

DNA encoding a fluorescent protein comprising the amino acid sequence set forth in SEQ ID No. 1 with at least the mutations of Val163Ala and Ser175Gly.

DNA encoding a fluorescent protein comprising the amino acid sequence set forth 16. in SEQ ID No. 1 with at least the mutations of Tyr66His, Tyr145Phe, Val163Ala and Ser175Gly.

A method of visually analyzing gene expression or protein localization in a cell 17. comprising the steps of:

(a) providing a cell transfected with a vector comprising the DNA of any of claims 8, 9 or 15;

(b) culturing the cells under conditions to express a fluorescent protein encoded by the vector; and

(c) detecting the presence of the fluorescent protein.

- The method of claim 17, wherein the cell is a mammalian cell. 18.
- A method of visually analyzing gene expression or protein localization in a cell comprising the steps of:

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(a) providing a cell transfected with a vector comprising the DNA of any of

(b) culturing the cells under conditions to express a fluorescent protein encoded

by the vector; and

(c) detecting the presence of the fluorescent protein.

The method of claim 19, wherein the cell is a mammalian cell.--20.